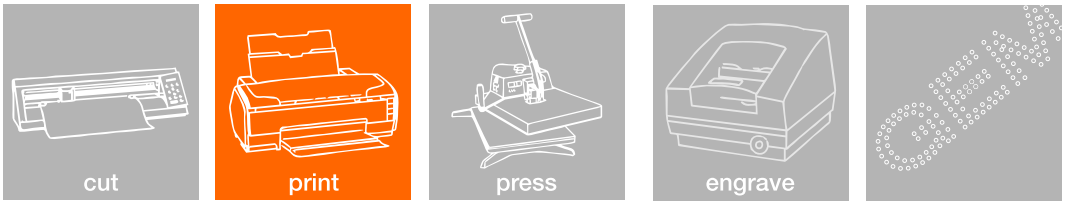
Ricoh GX7000 Sublimation Manual



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Installation

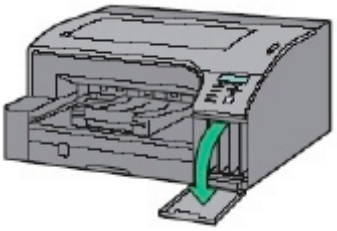
Installation Guide - Ricoh Driver and Inks

1. Unpack and setup the printer as described in the printer setup instructions. Have the printer plugged into a **power outlet** but not turned on. **IMPORTANT: DO NOT INSTALL THE STANDARD RICOH CARTRIDGES.**

Ink Cartridge Setup

CAUTION: DO NOT INSTALL THE STANDARD RICOH INKS BEFORE INSTALLING SUBLIMATION INK.
Do not power ON the printer before installing the cartridges.

Remove the Sublimation cartridges from the packaging.

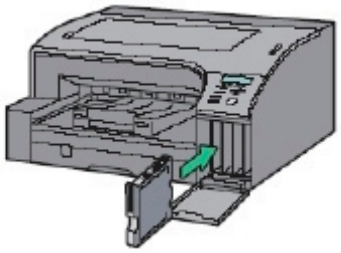


Open front cover to reveal ink cartridge compartment

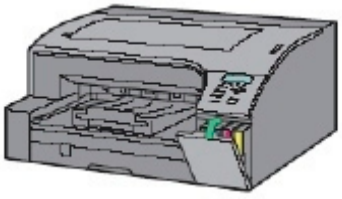
Insert the **Sublimation** cartridges in the indicated order. Press each cartridge body until it engages securely.

Please Note: Do not shake or agitate the ink carts before or after installation.

Cartridge Order: Black, Cyan, Magenta & Yellow



Once all cartridges are in place, close the cartridge cover.

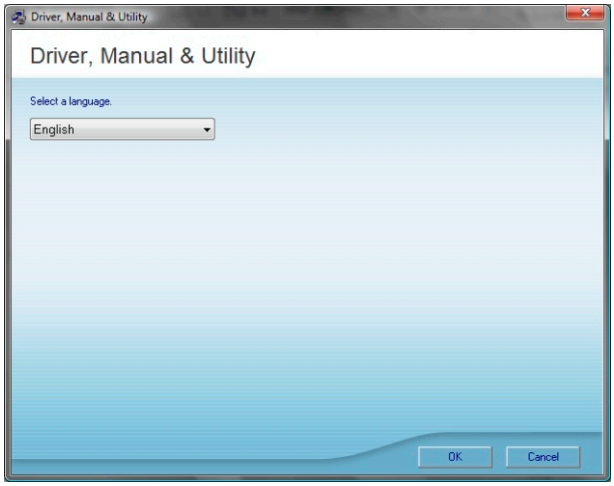


Note: DO NOT TURN ON THE POWER FOR THE PRINTER UNTIL THE DRIVER INSTALLATION REQUIRES YOU TO.

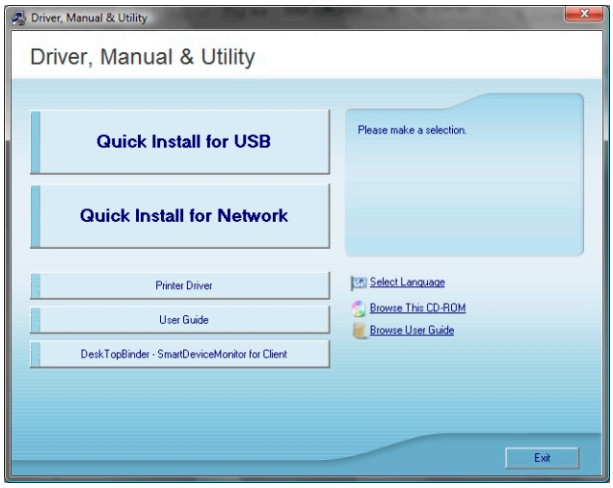
Installation

2. Insert the Ricoh CD into the CD/DVD Rom driver .

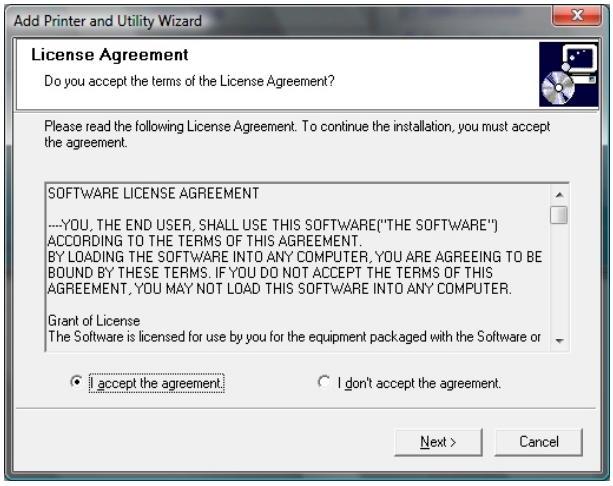
3. Select a langu a ge for the interface & click **OK**.



4. Click **Quick Install** with **USB**, and then click next.

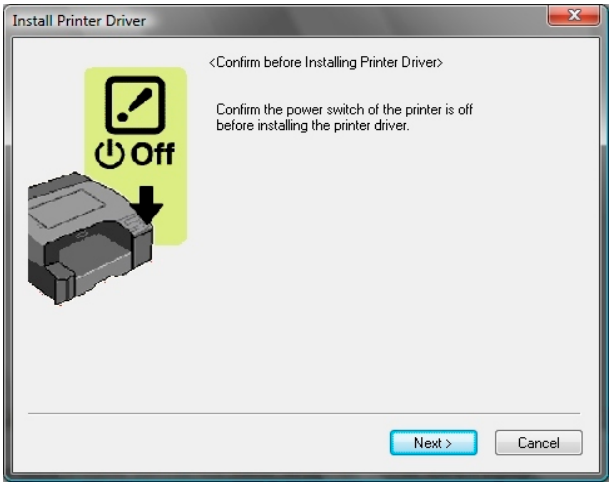


5. Click 'I accept the agreement' and click next

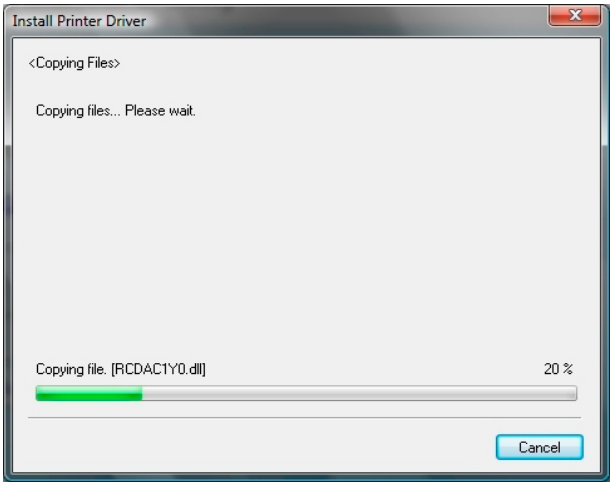

Add Printer and Utility Wizard
License Agreement
Do you accept the terms of the License Agreement?
Please read the following License Agreement. To continue the installation, you must accept the agreement.
SOFTWARE LICENSE AGREEMENT
----YOU, THE END USER, SHALL USE THIS SOFTWARE("THE SOFTWARE") ACCORDING TO THE TERMS OF THIS AGREEMENT.
BY LOADING THE SOFTWARE INTO ANY COMPUTER, YOU ARE AGREEING TO BE BOUND BY THESE TERMS. IF YOU DO NOT ACCEPT THE TERMS OF THIS AGREEMENT, YOU MAY NOT LOAD THIS SOFTWARE INTO ANY COMPUTER.
Grant of License
The Software is licensed for use by you for the equipment packaged with the Software or
I accept the agreement.
I don't accept the agreement.
Next >
Cancel

Installation

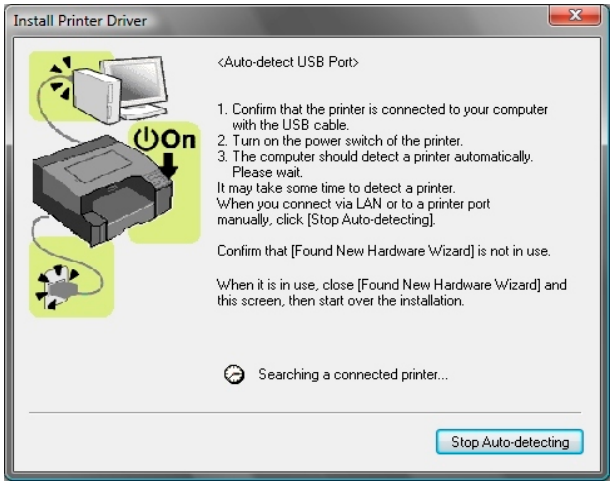
6. Click ‘Next’ to confirm the driver installatio n


Install Printer Driver
<Confirm before Installing Printer Driver>
Confirm the power switch of the printer is off before installing the printer driver.
Off
Next >
Cancel

7. The installation process will now begin

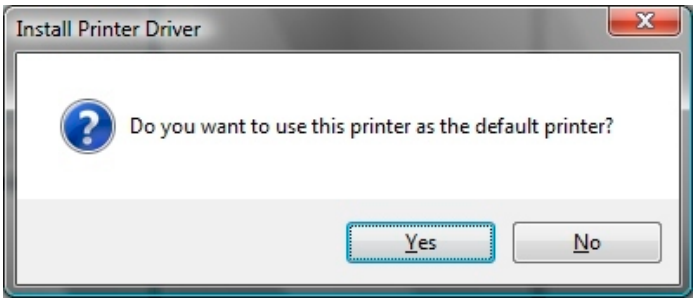


8. You will be prompted to turn the printer **On** to allow detection of the Ricoh GX7000.

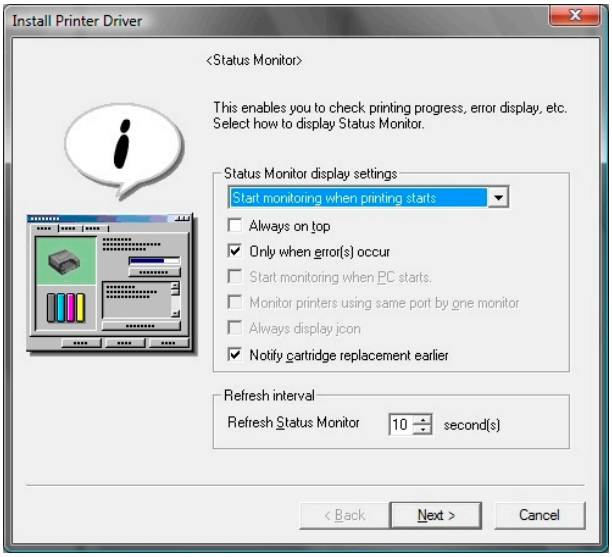

Install Printer Driver
<Auto-detect USB Port>
1. Confirm that the printer is connected to your computer with the USB cable.
2. Turn on the power switch of the printer.
3. The computer should detect a printer automatically. Please wait.
It may take some time to detect a printer.
When you connect via LAN or to a printer port manually, click [Stop Auto-detecting].
Confirm that [Found New Hardware Wizard] is not in use.
When it is in use, close [Found New Hardware Wizard] and this screen, then start over the installation.
On
Searching a connected printer...
Stop Auto-detecting

Installation

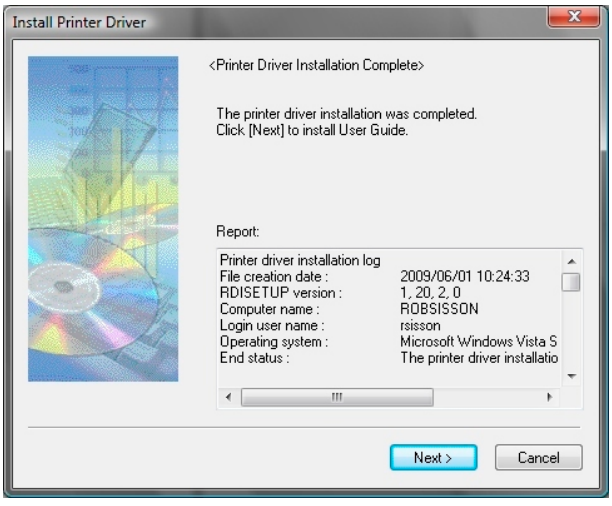
9. Once the printer has been detected you will be shown the following dialogue box, asking if you would like to set the printer as the default printer. You can select either Yes or No depending on which printer you prefer to be you default printer.



10. Click next in the dialogue box below.

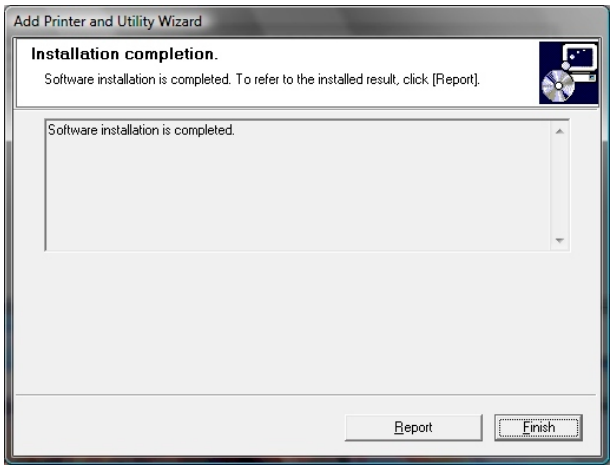


11. You will now be shown the following information stating that the printer has been installed successfully, Click Next.
If the information shown states that the installation failed, restart the PC and re-install the driver.



Installation

12 The system will now install the user manual, and then show the following window to confirm the install is complete. Click Finish

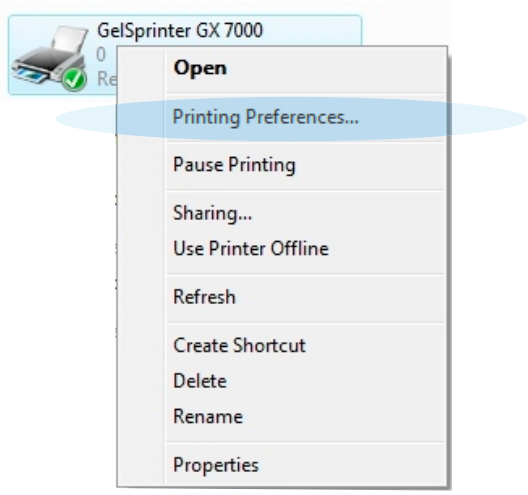

Add Printer and Utility Wizard
Installation completion.
Software installation is completed. To refer to the installed result, click [Report].
Software installation is completed.
Report
Finish

Driver Setup

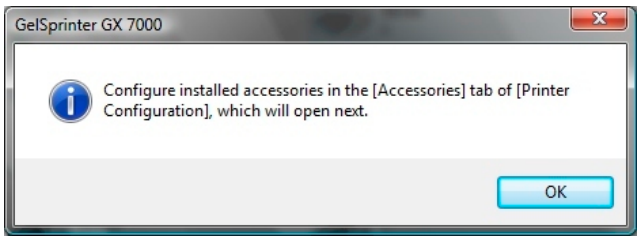
To setup the Ricoh GX7000 Driver ready for Sublimation printing using Corel Draw follow the steps below:

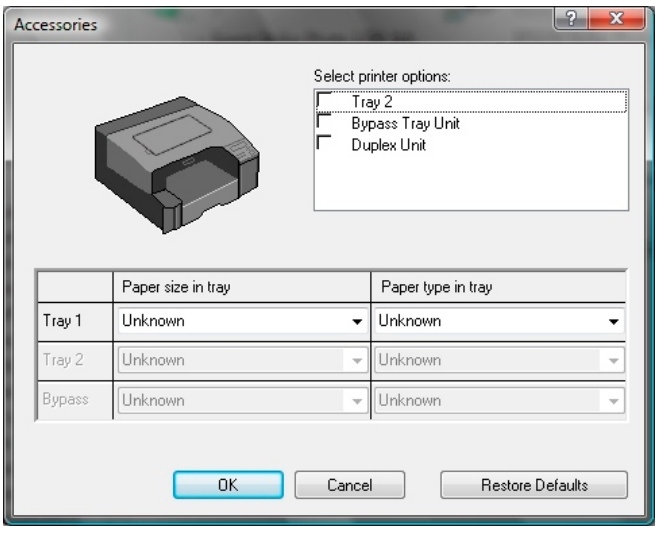
1. Click Start > Control Panel > Printers ('Printers and Faxes' if using windows XP or previous operating systems).

   Right click on the GelSprinter GX7000 option and select Printing Preferences as shown below.



2. If you see the window below, click OK, and then click OK on the second window that appears. (If you do not see this option skip to step 3).

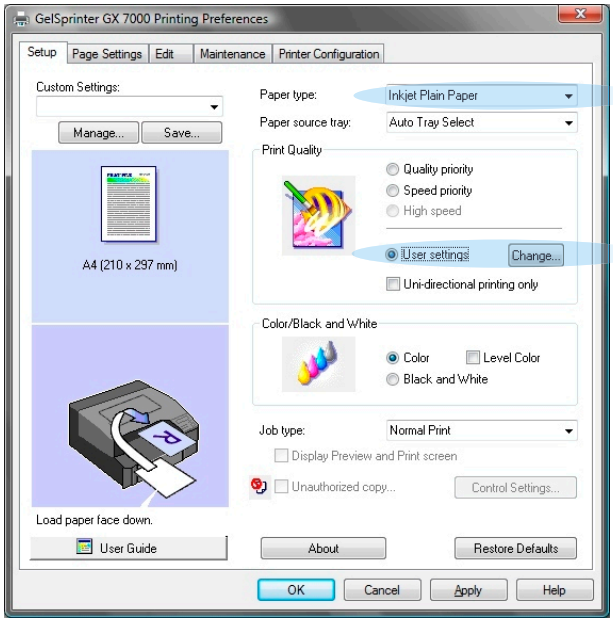

GelSprinter GX 7000
Configure installed accessories in the [Accessories] tab of [Printer Configuration], which will open next.
OK



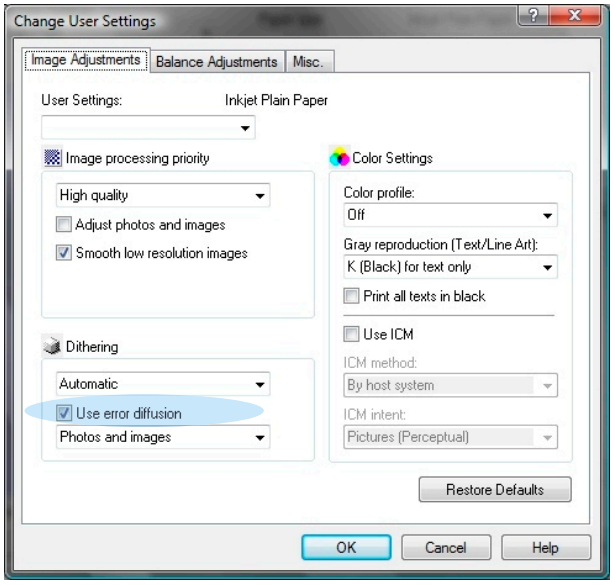
Driver Setup

3. In the Printing Preferences Window shown below, select ‘Inkjet Plain Paper’ for the ‘Paper Type’, and then select ‘User Settings’ as shown.

   Now click ‘Change’

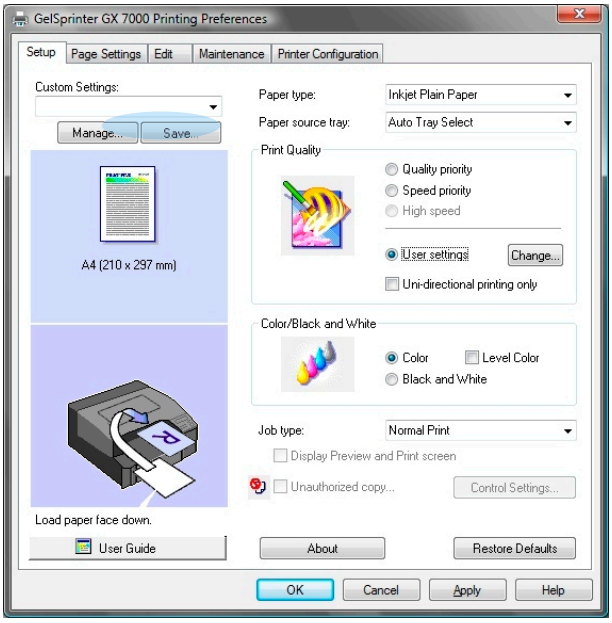


4. In the new window shown below, change the ‘Colour Profile’ option to ‘Off’ and then tick the ‘Use Error Diffusion’ option.
   Now click ‘OK’ to return to the previous window.

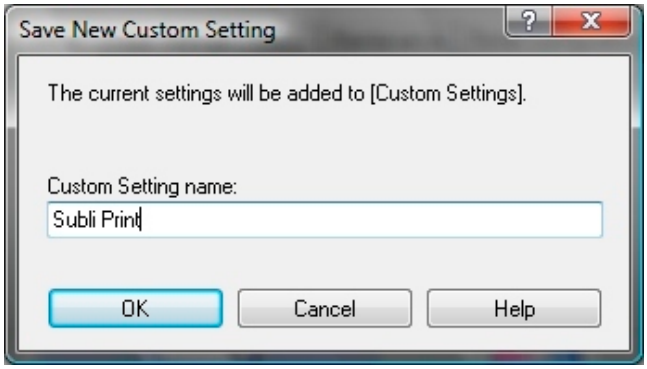


Driver Setup

5. Click ‘Save’

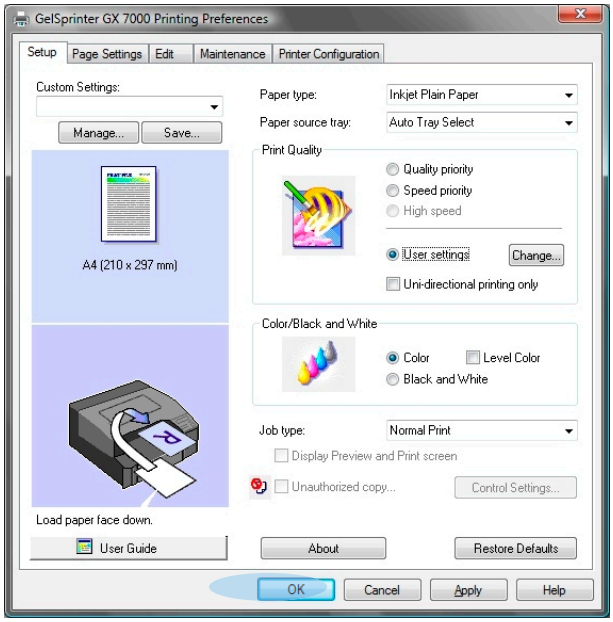


6. Type ‘Subli Print’ under the Custom Setting Name option as shown below, and click OK.



Driver Setup

7. Click ‘OK’ in the Printing Preferences window to confirm all changed settings as shown below.

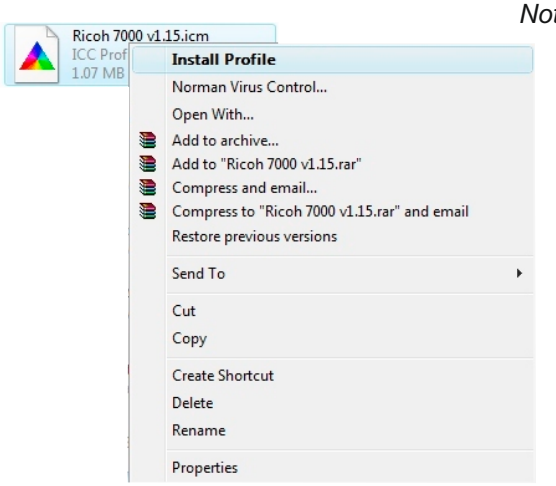


CorelDRAW 10 - X4 Setup

To setup Corel Draw follow the steps below

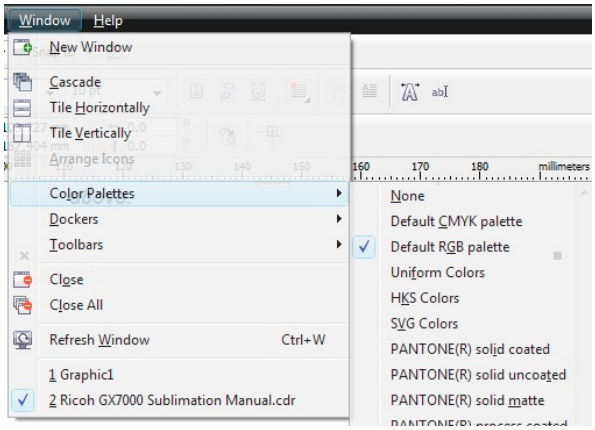
1. Before opening Corel Draw you need to install the Xpres Sublimation Colour Profile, this can be downloaded from www.xpres.co.uk/downloads or can be found on the Subli Print CD supplied.

   Save the Colour Profile on to your Desktop (drag and drop if taking from the supplied CD). Now Right Click the Colour Profile (Ricoh 7000 v1.15) and select 'Install' - *There will be no confirmation that the file has been installed.*



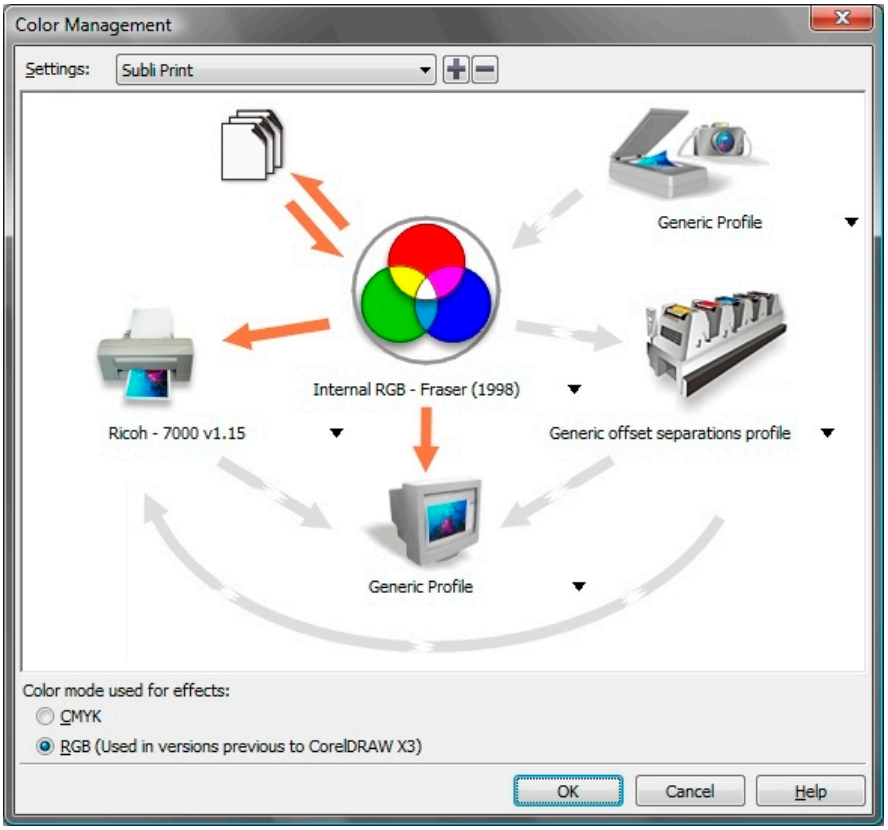
Note: If this 'install' option does not appear change the file extension from '.ICM' to '.ICC' and repeat the above.

2. Now open Corel Draw and open a new page. Click on Window > Colour Palettes. Click on 'Default RGB Palette'. Repeat the above and click 'Default CMYK Palette' to deselect this option. The Colour Palette menu should appear as shown below.



CorelDRAW 10 - X4 Setup

3. Now click Tools > Colour Management, you will see the Colour Management Dialogue Box appear as shown below.

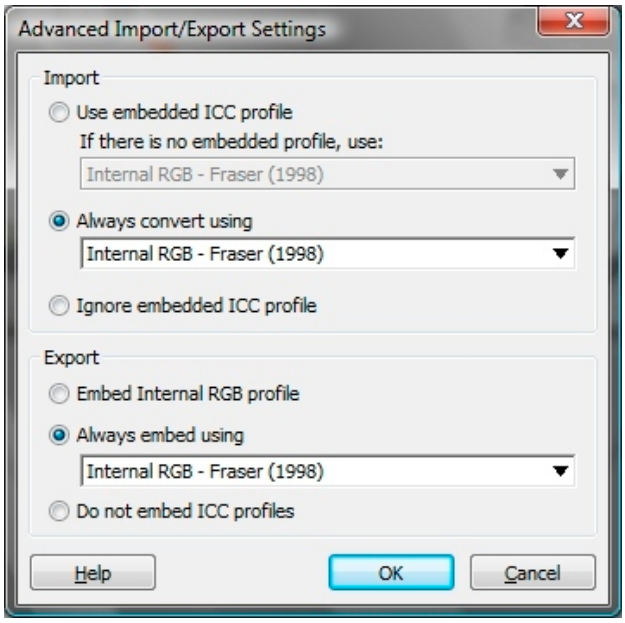


Firstly, make sure that the arrows are highlighted as above. To select or deselect an arrow, click directly on the arrow itself. Also select RGB under the ‘Color mode used for effects:’ option.

Make sure that the drop down option below the centre circle shows ‘Internal RGB - Fraser (1998)’, and the drop down option below the printer to the left hand side states ‘Ricoh - 7000 v1.15'.

CorelDRAW 10 - X4 Setup

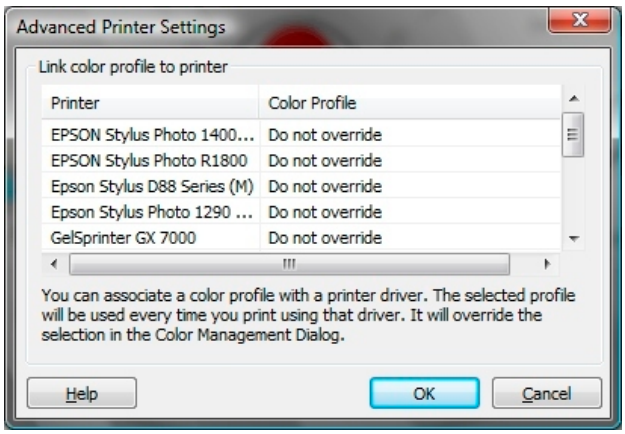
4. Click on the Import/Export icon to open the window below



Import/Export Icon

Select ‘Always Convert Using’ and ‘Always Embed Using’. In both drop down lists select ‘Internal RGB - Fraser (1998)’ as shown.

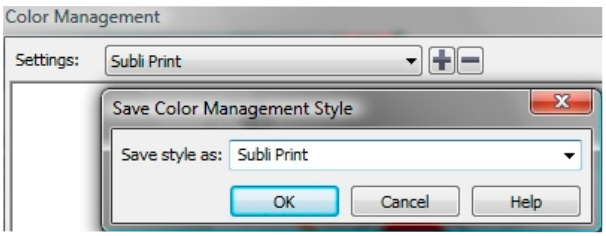
5. Now click on the ‘Advanced Printer Settings’ to open the window below.


Advanced Printer Settings
Link color profile to printer
Printer
Color Profile
EPSON Stylus Photo 1400...
Do not override
EPSON Stylus Photo R1800
Do not override
Epson Stylus D88 Series (M)
Do not override
Epson Stylus Photo 1290 ...
Do not override
GelSprinter GX 7000
Do not override
You can associate a color profile with a printer driver. The selected profile will be used every time you print using that driver. It will override the selection in the Color Management Dialog.
Help
OK
Cancel

Advanced Printer Settings Icon

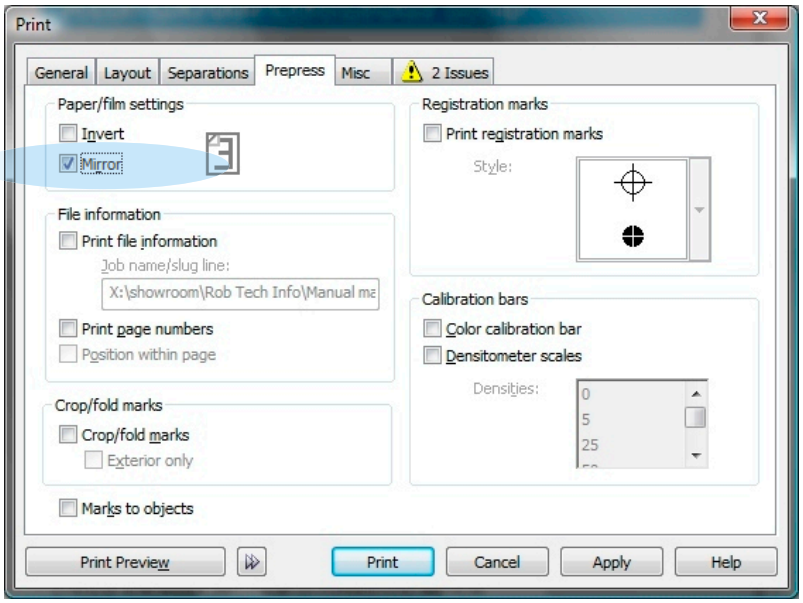
Make sure that ‘Do Not Override’ under Colour Profile is selected next to all printers.

6. Now click on the [+] option to save your settings. Save the settings as ‘Subli Print’ and click OK to confirm. Then click OK in the Colour Management window.

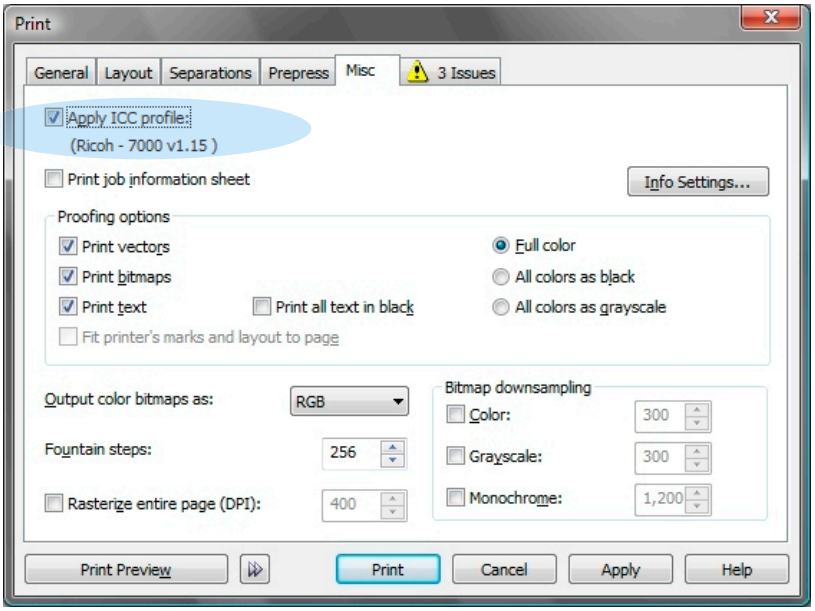


CorelDRAW 10 - X4 Setup

7. When you have your image ready to print, go to File > Print and select the relevant printer (GelSprint GX7000). Now select the Prepress tab, make sure that the 'Mirror' option is ticked as shown below. (Sublimation requires the images to be printed in Mirror).



8. Now select the Misc Tab, make sure the 'Apply ICC Profile' option is ticked as shown below.



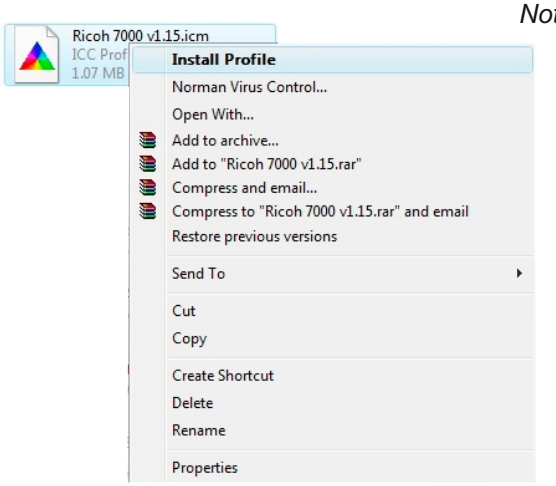
Now click 'Apply' to confirm the changes. The system is now ready for printing.

CorelDRAW X5 Setup

To setup Corel Draw X5 follow the steps below:

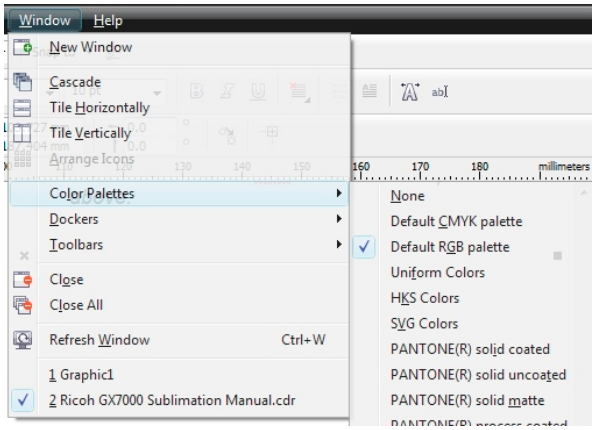
1. Before opening Corel Draw you need to install the Xpres Sublimation Colour Profile, this can be downloaded from www.xpres.co.uk/downloads or can be found on the Subli Print CD supplied.

   Save the Colour Profile on to your Desktop (drag and drop if taking from the supplied CD). Now Right Click the Colour Profile (Ricoh 7000 v1.15) and select 'Install' - *There will be no confirmation that the file has been installed.*



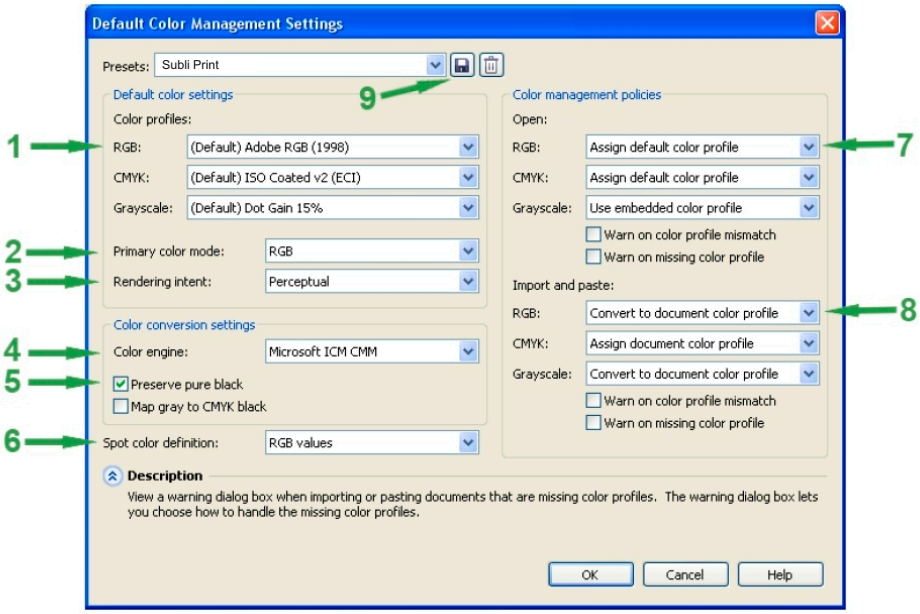
Note: If this 'install' option does not appear change the file extension from '.ICM' to '.ICC' and repeat the above.

2. Now open Corel Draw and open a new page. Click on Window > Colour Palettes. Click on 'Default RGB Palette'. Repeat the above and click 'Default CMYK Palette' to deselect this option. The Colour Palette menu should appear as shown below.



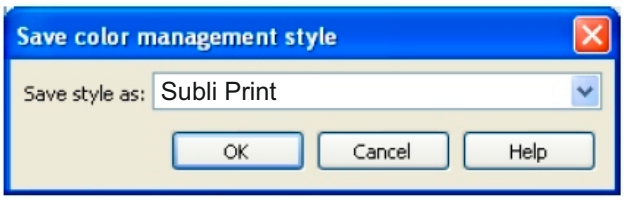
CorelDRAW X5 Setup

3. Now click on Tools > Colour Management > Default Settings. You will now see the colour management dialogue box appear as shown below:



Here we will configure Corel's default color space and ICC profiles.
The green arrows and numbers correspond to each phase of the setup process which are detailed below.

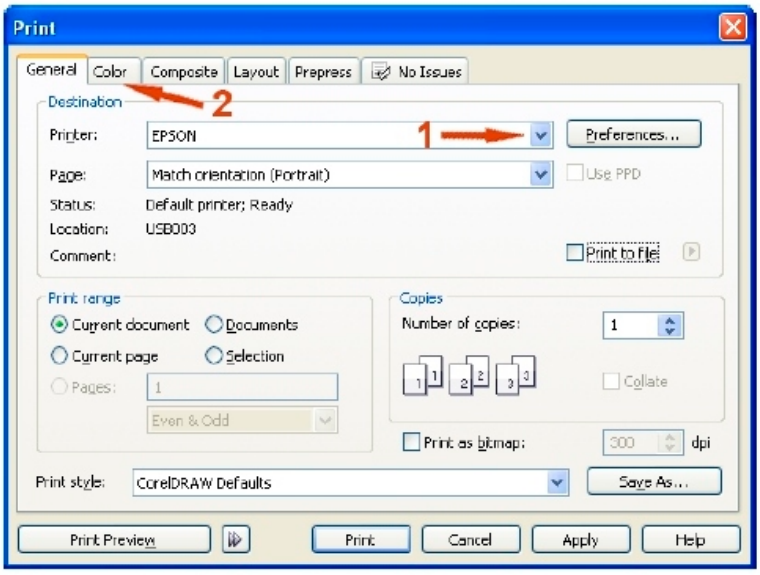
1. Select 'Adobe RGB (1998)' from 'RGB:' under 'Default color settings:'.
2. Select 'RGB' from 'Primary color mode:' under 'Default color settings:'.
3. Select 'Perceptual' from 'Rendering Intent' under 'Default color settings:'.
4. Select 'Microsoft ICM CMM' from 'Color engine:' under 'Color conversion settings'.
5. Check 'Preserve pure black' under 'Color conversion settings'.
6. Select 'RGB values' from 'Spot color definition'.
7. Select 'Assign default color profile' from 'Open', 'RGB:' under 'Color management policies'.
8. Select 'Convert to document color profile' from 'Import and paste:', 'RGB:' under 'Color management policies'.
9. Click the save icon and enter an appropriate name e.g 'Subli Print' as shown below.



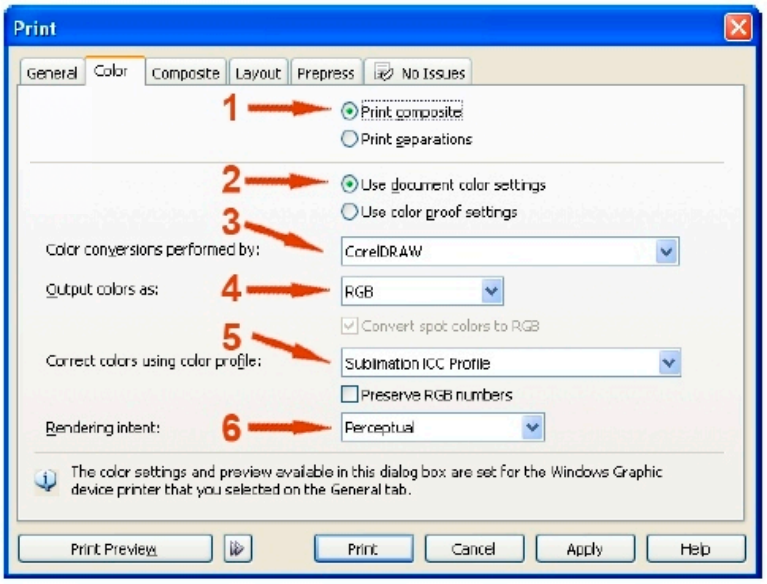
CorelDRAW's Colour Settings are now set correctly. You can now work with an image as normal.

CorelDRAW X5 Setup

When your image is ready to print open the print window: File > Print



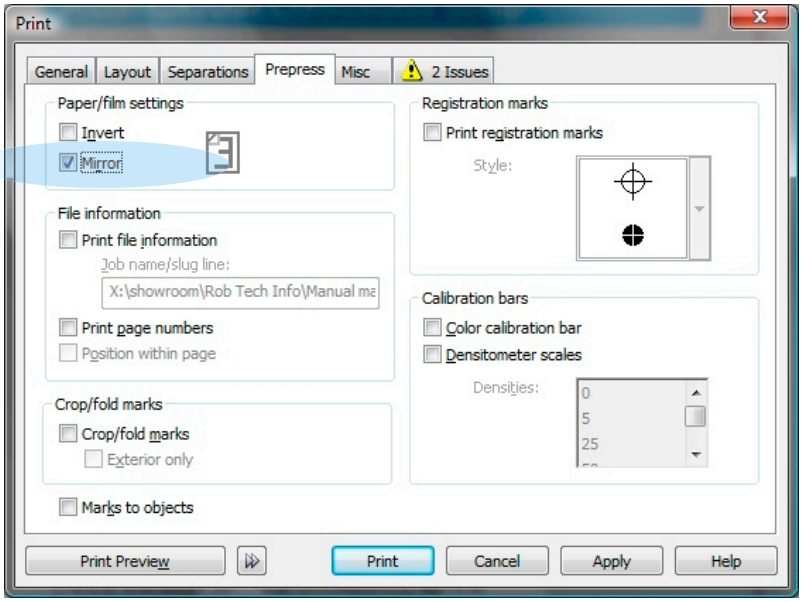
1 Select the appropriate printer from the drop down list.
2 Select the **'Color'** tab.



1 Select **'Print Composite'**.
2 Select **'Use document color setting'**.
3 Select **'CorelDRAW'** from **'Color conversions performed by:'**.
4 Select **'RGB'** from **'Output colors as:'**.
5 Select the '**Ricoh 7000 1.15**' profile from **'Correct colors using color profile:'**.
6 Select **'Perceptual'** from **'Rendering intent:'**.

CorelDRAW X5 Setup

7. Now select the ‘Prepress’ tab, make sure that the ‘Mirror’ option is ticked as shown below. (Sublimation via the Ricoh GX7000 requires the images to be printed in Mirror).



You are now ready to print. Click **'Print'** and Corel will now print your image using the sublimation ICC profile combined with the configured Ricoh Print Driver. (If you also click the ‘Apply’ button this will store your settings ready for future use).

Working with templates

In this section you will learn how to open a sublimation template, import an image and use the power clip tool to fit the image to the template. For this exercise we will use the 9cm² square coaster.

If you have had an installation by an Xpres engineer, you will find the templates in a folder on your desktop called 'Xpres'. Otherwise you can either download these from the Technical Support section of our website www.xpres.co.uk/tech_support/downloads You can also find these on the Xpres Technical CD, and Subli-Print CD.

Click File > New From Template (diagram **1**), click on the 'Browse' tab then point it towards where your Sublimation templates are stored. Select the 'Coaster square.cdt' then click OK.

Diagram 1

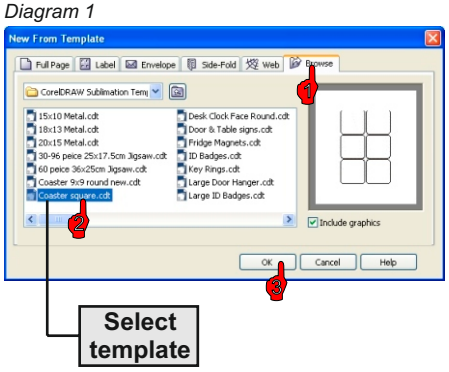
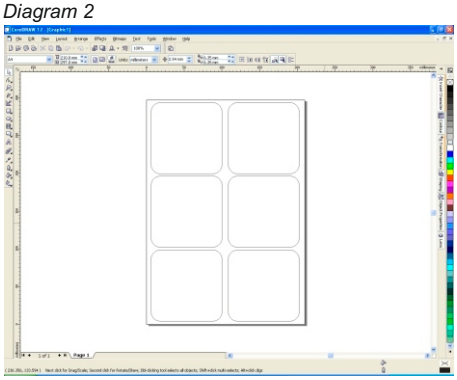


Diagram 2



You will now see six square coaster templates open as in diagram **2**. For this exercise we will work with one only. Click on one of the coaster templates and hit the delete button on the keyboard. Repeat this process until you are left with one. Click and drag the template to the centre of the page (diagram **3**).

Diagram 3

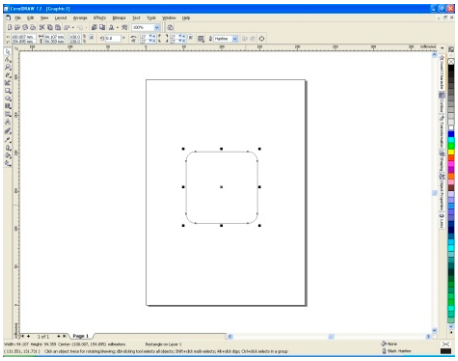
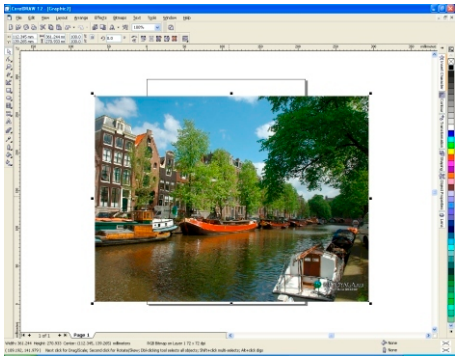


Diagram 4



Import your image by clicking on File > Import. Select your image from the browse window and click the import button. You will now see you image as in diagram **4**. Click on the corner selection handles to down size the image slightly larger than the template, as in diagram **5** below.

Diagram 5

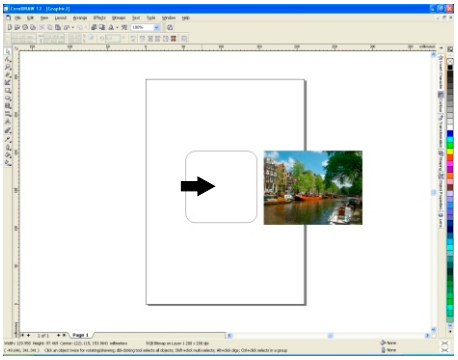
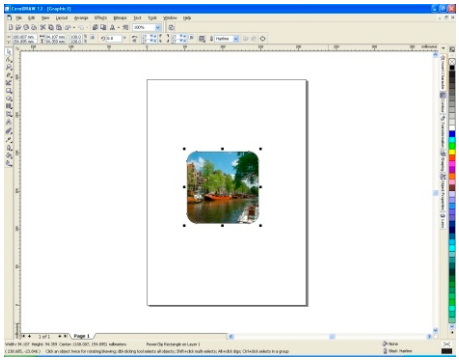


Diagram 6

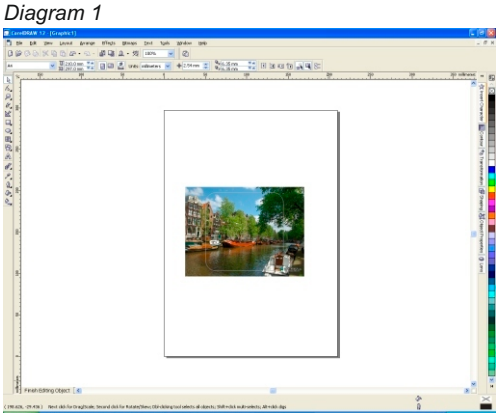


Click on Effects > Power clip > Place inside container. You will now see a large black arrow appear, click on the edge or inside to power clip the object to the template. You will now see the image appear inside (fitted) to the template as in diagram **6**.

Working with templates

If your image does not fit the power clip correctly first time, right click on the image and choose 'Edit Contents' from the drop down menu (diagram **1**). You can also click on Effects > Power Clip > Edit Contents. Drag the image (you will see the image and the template on the screen) until you have it in the right place. You can even re-size the object in the 'Edit' state. When you are happy with the image placement, right click and choose 'Finish Editing This Level', from the drop down menu. You can also access this by clicking on Effects > Power Clip > Finish Editing This Level.

Diagram 1



Tips on using templates

All Xpres Sublimation templates are slightly larger than the actual substrate. You can leave the border of the template visible as this helps to line up the substrate before taping it onto the transfer paper (use XP6006 Heat Tape to secure the substrate to the transfer paper).

The only template you cannot leave the border on is the mug template as this will show up when printed.

To duplicate your image once fitted to the template refer to page **18** on duplicating objects

CorelDRAW tools

CorelDRAW is an extremely powerful program of which you will probably only need to use half of the tools and features of the program. In this section we will introduce you to the tools in CorelDRAW and what they do and also take you through the most common tasks you will need to complete in CorelDRAW.
Below is an image of the toolbox in CorelDRAW with explanations of the tools based on Corel 11.

Pick Tool
Shaping Tools
Zoom Tools
Drawing Tools
Rectangle Tools
Ellipse Tools
Polygon Tools
Basic Shapes Tool
Text Tool
Interactive Tools
Eyedropper Tools
Outline Tool
Fill Tool
Interactive Fill Tool

Each of the tools shown here except the Pick tool and the Text tool have extra tools hidden in what are called flyout menu's, to access a fly out menu hold the left mouse button down on the corresponding button and the menu will pop out allowing you access to the extra tools.
Each of the flyout menus are shown below giving you a breakdown of where all the tools are stored, on the next page we will go over the most common tools and their functions.

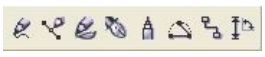
Shaping Tools

In order:
Shape Tool, Knife Tool, Eraser Tool, Smudge Brush, Roughen Brush, Free Transform Tool

Zoom Tools

In order:
Zoom Tool, Pan Tool

Drawing Tools



In order:
Freehand tool, Bezier Tool, Artistic Media Tool, Pen Tool, Polyline Tool, 3 Point Curve, Interactive Connector, Dimension Tool

Rectangle Tools

In order:
Rectangle Tool,
3 Point Rectangle

Ellipse Tools

In order:
Ellipse Tool,
3 Point Ellipse Tool

Polygon Tools

In order:
Polygon Tool,
Graph Paper Tool,
Spiral Tool

Basic Shapes Tools

In order:
Basic Shapes Tool, Arrow Shapes Tool, Flowchart Shapes, Star Shapes, Callout Shapes

Interactive Tools

In order:
Blend Tool, Contour Tool, Distortion Tool, Envelope Tool Extrude Tool, Shadow Tool, Transparency Tool

Eyedropper Tools

In order:
Eyedropper Tool,
Paintbucket Tool

Outline Tool

In order:
Outline Pen Tool, Outline Colour Tool, No outline, Various widths of line, Colour Docker Window

Interactive Fill Tools

In order:
Interactive Fill, Mesh Fill

Fill Tool

In order:
Fill Tool, Fountain Fill, Pattern Fill, Texture Fill, Postscript Fill, No Fill, Colour Docker Window

CorelDRAW tools

The Pick Tool

This is the main tool that you will use in CorelDRAW, it is used for manipulating anything onscreen in the main window and also for selecting and using any of the other tools, holding the left mouse button and dragging a box will select anything within the area that you drag over, clicking an object onscreen with a single left mouse button click will select individual objects.

The Zoom Tool

When you select the Zoom tool your cursor will change to a magnifying glass with a plus sign in the lens, to zoom in on an are click the left mouse button, to zoom out click the right mouse button, to zoom in on a certain area click and drag around the area with the left mouse button and you will zoom to the selected area.

The Bezier Tool

Open the Curve flyout and click the Bézier tool . Click where you want to place the first node, and drag the control point in the direction you want the curve to bend. Release the mouse button. Position the cursor where you want to place the next node, and drag the control point to create the curve you want. Double-click to finish the curve.

The Shape Tool

This tool is used in conjuntion with the Bezier Tool to curve lines.
This tool can also be used to alter the shapes of objects and to change the spacing on text.

The Rectangle, Ellipse, Polygon & Basic Shapes Tools

All of these tools work on a very simple basis in that you clickand hold the left most button down and drag out the shape that you would like to the sizes you require.

The Text Tool

Simply click on screen with this tool and then type as normal with the keyboard, you will see that you have all the standard options at the top of the screen such as font type and size as well as the standard formatting options.

The Outline Tool

This tool lets you change the properties of any object on screen to change the width of the outside edge by selecting the object first with the Pick tool and then choosing the Outline tool to make your changes.

The Fill Tool

The Fill tool works in exactly the same way as the Outline Tool but alters the properties of the inside of an object i.e the colour fill of it, by selecting the object first then choosing the Fill tool to make your changes.

The Interactive Tools

These tools are a collection of tools that will allow you to add artist effects to any object in the main CorelDRAW window such as shadows, contours and transparencies etc.

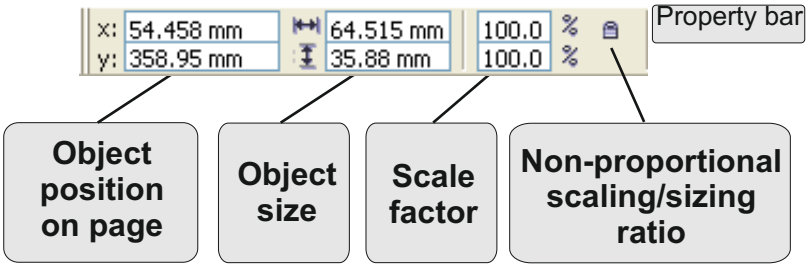
CorelDRAW tasks

Grouping & Ungrouping

CorelDRAW allows objects to be grouped with other objects, this means that when one object is moved or resized, other objects grouped with it will also have the same action applied to them. To group objects, use the pick tool to select the objects and either go to your arrange menu, then select 'Group' or click on the short cut button in the menu bar labelled 'Group'. To Ungroup use the same actions but select 'Ungroup' from the menus.

Sizing images

There are many ways to resize an object in CorelDRAW. You can click and drag the selection handles around the object by using the pick tool.

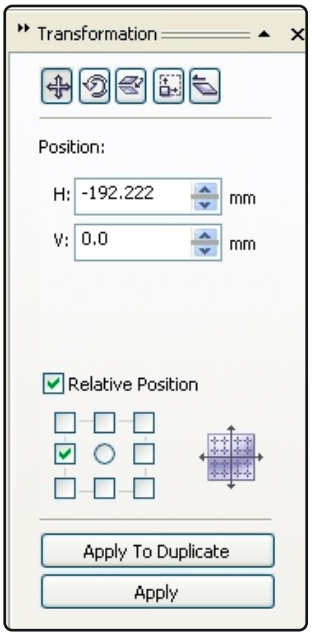


You change the dimensions of an object proportionally by preserving its aspect ratio. You can size an object's dimensions by specifying values or changing the object directly. Scaling changes an object's dimensions by a specified percentage. You can change an object's anchor point from its centre to any of its eight selection handles.

You can also click on the object you wish to re-size and type in the object size box. If you lock the non-proportional scaling/ sizing ratio the width and height of the object will scale/size in proportion. If you un-lock it, you can make the object any size you wish.

Duplicating objects

There are a couple of ways you can duplicate objects on CorelDRAW. The easiest but not that accurate in terms of plotting your design out is to select the object with the pick tool, then press CTRL+D. You can then place the image manually on the layout screen.



The accurate way to duplicate objects is to use the Transformation docker window. Click on Arrange > Transformations > Position. The Transformation docker window will pop up on the right hand side in CorelDRAW. When you select an object the Position, relative position and the apply buttons will illuminate. The example on the right shows an object which is selected and ready to be duplicated. To increase or decrease the horizontal positioning enter the size or click the up/down arrows. This function specifies the duplication distance from the original object.

The relative position option is there to select where you want the duplicated object to appear. On the example I have selected the duplicate to appear on the left of the original object. Now click 'Apply To Duplicate' to duplicate the object(s).

From the transformation docker window you can also select Rotate, Scale and mirror, Size and skew.

Troubleshooting / Tips

Useful CorelDRAW tips

To ensure CorelDRAW performs at it's best, click on Tools > Options, click on 'snap to objects' and un-tick the 'snap to objects on (ALT+Z)'. Now click on the + next to 'Text' and click on 'Quick correct'. Un-tick all five boxes.
Depending on your system memory you can increase the memory usage available to CorelDRAW (default 25%). If CorelDRAW is sluggish and running out of memory try increasing this (10% increments recommended).

To see the actual size of your text in CorelDRAW (rather than font points) activate the 'Transform' toolbar. Click on 'Window', scroll down to 'Toolbars' and tick 'Transform'. Drag the toolbar to the top and drop it to place it in the toolbar cluster.

Print quality on ceramics, plastic, metal etc appears weak?

1. Check the time, temperature and pressure as illustrated in the printing information guide.

2. Ensure you have installed the Xpres Subli-Print profile correctly.

3. Check whether the substrate is facing up on the heat press.

Subli-T hints and tips

• Is the transfer permanent on Subli-T's?
Yes as the process is direct to the polyester.

• When heat applying the press leaves a severe press mark?
The pressure on the heat press is set too high. Reduce the pressure.

Why is the image on mugs blurred after printing?

Ensure you have dipped the mug in water immediately after printing, and/or increase the pressure on the mug press.

The sublimation transfer colour appears very washed out on the transfer?

All sublimation ink appears weak until heat applied, colours will change and become vibrant.

Ensure you have applied the Subli-Print ICC colour correction software. See pages 10 - 13.

Ensure you are printing onto the correct side of the transfer paper.

For XP4072a/73a Sublimation paper, print onto the bright white side.

Tips on cropping images

After importing your image into CorelDRAW you may need to crop (down size) the image. There are 2 ways you can do this.

1. Highlight your image with the pick tool, then click on the shape tool (F10) in CorelDRAW, hold down the CTRL key then resize you image by moving the selection handles in the corner of the image. **Tip**: While in the shape tool you can also add new node and convert the lines to curves.

2. If you double click on the image in CorelDRAW it should launch Corel PHOTO-PAINT. Use the crop tool to achieve similar results as above. CorelDRAW X3 & X4 has a crop tool now built in.

Check out the FAQ section on the Xpres website www.xpres.co.uk/tech_support/faq for more hints & tips.